

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name: PeCOD® Calibrant

Chemical Name: Sorbitol Solution

Synonyms:

Advanced Blue Range Calibrant

Green Range Calibrant

Yellow Range Calibrant

Red Range Calibrant

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Product Use: For the calibration of the MANTECH PeCOD® Analyzer. Laboratory and industrial use only.

No uses advised against.

1.3. Details of the supplier of the safety data sheet

Manufacturer Information:

579453 Ontario Inc.

o/a MANTECH

5473 Highway 6 North

Guelph, ON, N1H 6J2

1.4. Emergency telephone number

Monday – Friday 8:00AM to 4:30PM (EST): **+1-519-763-4245**

24-hour: **+1-519-835-5252**

2. Hazards Identification

2.1. Hazard classification according to Regulation (EC) No 1272/2008

Not classified.

2.2. Label Elements

Symbol: No symbol

Signal Word: No signal word

Hazard Statements: Not applicable

Precautionary Statements: Not applicable

2.3. Other hazards

Skin: Prolonged or repeated exposure may result in slight irritation.

Ingestion: Ingestion of large amounts may result in stomach irritation.

HMIS Ratings: **Health: 0** **Fire: 0** **Physical Hazard: 0**
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate
 3 = Serious 4 = Severe * = Chronic

3. Composition Information

Component	CAS #	Percent
Sorbitol	50-70-4	<2%
Silver Nitrate	7761-88-8	<0.01%
Water	7732-18-5	Balance

4. First Aid Measures

4.1. Description of first aid measures

Eye: Wash with running water for at least 15 minutes. Seek medical attention if irritation develops.

Skin: Wash area with soap and water. Seek medical attention if irritation develops.

Ingestion: If uncomfortable, seek medical attention.

Inhalation: Remove patient to fresh air. Seek medical attention for any breathing difficulties.

Advice to Doctor: Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

No further information available.

4.3. Indication of any immediate attention and special treatment needed

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

General Fire Hazards:

Non-combustible solution.

Extinguishing Media:

Not combustible, however, if material is involved in a fire use dry chemical, foam, carbon dioxide, water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Properties:

None identified.

5.3. Advice for firefighters

Fire Fighting Equipment/Instructions:

Firefighters should wear self-contained breathing apparatus and suitable protective clothing

NFPA Ratings:	Health: 0	Fire: 0	Physical Hazard: 0
Hazard Scale:	0 = Minimal	1 = Slight	2 = Moderate
	3 = Serious	4 = Severe	

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures:

None necessary.

6.2. Environmental Precautions

Special Procedures:

Follow all local, State, Federal, and Provincial regulations for disposal. Wash area down with excess water.

6.3. Methods and material for containment and cleaning up

Containment Procedures:

Contain the discharged material.

Clean-Up Procedures:

Wear appropriate personal protective equipment. Absorb spill with inert material such as lime, polypads, or other suitable absorbent material.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

7. Handling and Storage

7.1. Precautions for safe handling

Handling Procedures:

Avoid eye contact and repeated or prolonged skin contact. Exercise good industrial and personal hygiene procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage Procedures:

Keep container tightly closed, and store at room temperature.

7.3. Specific end use

See Section 1.2. for specific end uses.

8. Exposure Controls / Personal Protection

8.1. Control parameters

EU community exposure limit: N/A

National exposure limit: N/A

8.2. Exposure Controls

Exposure Guidelines: Exposures should be minimized in accordance with good industrial hygiene practices

Engineering Controls:

Not Necessary. Natural ventilation should be adequate under normal conditions. Keep containers closed when not in use.

Personal Protective Equipment (PPE)

Eyes/Face: Wear safety glasses

Skin: Wear impervious (neoprene) gloves and cotton/polyester lab coat or overalls

Respiratory: Use in a ventilated area.

General: Wash hands after handling material and before eating or drinking.

9. Physical and Chemical Properties

Appearance	Clear, colourless	Lower Flammable Limit (LFL)	Not Applicable
Physical State	Liquid	Upper Flammable Limit (UFL)	Not Applicable
Odour	Odorless	Solubility (H₂O)	Miscible with Water
Odour Threshold	Not Applicable	Specific Gravity	Not Available
pH	4-6	Auto Ignition Temperature	Not Applicable
Melting Point	Not Available	Decomposition Temperature	Not available
Boiling Point	>100°C (220°F)	Viscosity	8.90 × 10 ⁻⁴ Pa. s
Flash Point	Not Applicable	Partition Coefficient	Not available
Vapour Pressure	Not Available	Explosive Properties	Not applicable
Vapour Density	Not Available	Oxidizing Properties	Not applicable
Evaporation Rate	Similar to Water		

10. Stability and Reactivity
10.1. Reactivity

Not applicable.

10.2. Chemical stability

Chemical Stability: This is a stable material.

Conditions to Avoid: Avoid contact with extreme heat and incompatible materials.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Incompatible materials

Strong oxidizers.

10.5. Hazardous decomposition products

Decomposition may yield Carbon Monoxide, Carbon Dioxide, and/or low molecular weight hydrocarbons when heated.

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity: No LD50 or LC50 available for this product.

Skin corrosion/irritation: Does not cause skin irritation.

Serious eye damage/irritation: Does not cause eye damage/irritation.

Respiratory or skin sensitization: Over exposure may be irritating to contaminated tissues, but is reversible when removed from exposure.

Germ cell mutagenicity: No mutagenicity data available for this product.

Carcinogenicity: No carcinogenicity data available for this product.

Reproductive toxicity: No teratogenicity data available for this product. This product is not expected to cause reproductive or developmental effects.

STOT-single exposure: Not applicable.

STOT-repeated exposure: Not applicable.

Aspiration hazard: Not applicable.

12. Ecological Information

12.1. Toxicity

No data available.

12.2. Persistence and biodegradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available

13. Disposal Considerations

13.1. Waste treatment method

Dispose of waste according to Local, State, Federal and Provincial Environmental Regulations.

14. Transport Information

14.1. UN-Number

None allocated.

14.2. UN proper shipping name

None allocated.

14.3. Transport hazard class(es)

DOT, IATA, IMDG: This product is not regulated as a hazardous material for transportation

14.4. Packing group

None allocated.

14.5. Environmental hazards

This substance is not associated with any environmental hazards.

14.6. Special precautions for users

No special precautions applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

15. Regulatory Information

15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture

US Federal regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory.

Canadian regulations

Not listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification: Not classified by WHMIS.

Not listed on the Canadian Ingredient Disclosure List

EU Regulations

- i. Directive 2012/18/EU: Substance is not listed.
- ii. Named dangerous substances – ANNEX I: Substance is not listed.
- iii. LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV): Substance is not listed.
- iv. Regulation (EC) No 1907/2006 ANNEX XVII: No restrictions for this substance.

15.2. Chemical safety assessment

A chemical safety assessment had not been performed for this substance.

16. Other Information

Workers should be trained to handle hazardous chemicals. It is recommended that they are familiar with the contents of this safety data sheet (SDS). This SDS is not a risk assessment; recipients are advised to make their own risk assessment as required by other Health and Safety legislations. This substance is compliant with REACH.

Created: June 20, 2012

Revised: October 3, 2019

Reference: Not Available

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